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# ARMY MODERNIZATION PLAN 2001

## ANNEXES

### Introduction

The main body of this *Army Modernization Plan* discusses how the Army will transform itself over time into the Objective Force. This plan is focused on implementation of Army Transformation, the purpose of which is to preserve the Army's ability to execute the National Military Strategy and preserve its enduring full spectrum dominance in the evolving strategic and operational environment. That strategy requires the capability to fight and win Major Theater Wars (MTWs) at the same time we support peacetime engagement and remain ready to execute all missions assigned. The evolutionary development of today's Army into light and heavy forces has left a capability gap in the mid-intensity area of the spectrum of operations. That is the area where success requires both responsiveness, achieved by rapid deployment and arriving ready to fight, and a high level of military capability in the form of lethality, tactical mobility, and survivability.

Two of the Transformation paths or vectors (Legacy Force and Interim Force) address maintaining our supremacy in fighting and winning MTWs and fielding an element of the force that can address the capability gap. Selective modernization and recapitalization of the existing forces, referred to as the Legacy Force, will maintain and improve as necessary our

war-winning edge over any potential opponents. At the same time, we are fielding a complementary set of units (initially the Interim Brigade Combat Teams (IBCTs) and eventually the Interim Division) that fills the gap between the exceptional responsiveness of our light and special purpose forces and the dominant lethality and survivability of our heavy forces. The end state, however, remains the future Objective Force.

The long-term need is for a force that is truly multi-role and fully capable of dominating any adversary in any environment. The Objective Force embodies the characteristics required for dominant superiority across the spectrum of conflict—responsiveness, deployability; lethality, survivability, agility, versatility, and sustainability. The IBCTs are only part of the solution. They are more responsive than today's heavy force and more lethal, survivable, and tactically mobile than today's light force, but until we can field the Objective Force we must maintain all of the capabilities embodied in our light, interim, and heavy forces.

Once fielded, the Objective Force will provide the National Command Authorities with an Army of units that embody the best characteristics of the heavy and the light forces, units that are truly multipurpose, combined-arms, and full spectrum. They will be enabled by a system of systems that inherently contains all of the

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capabilities found in the disparate pieces of today's Army, yet requires far less logistical support to function at high efficiency. This future force, like the Army of today, will be designed to operate as part of a joint team of forces from all Services. *Joint Vision 2020* (JV 2020), published in June 2000, which serves as the guiding framework for how the joint forces, including the Army's Objective Force, will operate in the future strategic and operational environment.

### **Joint Vision 2020: Conceptual Framework for Full Spectrum Dominance**

JV 2020 guides the continuing transformation of America's Armed Forces in the 21<sup>st</sup> century. The overall goal of Army Transformation is the creation of a force that is dominant across the full spectrum of military operations—persuasive in peace, decisive in war, preeminent in any form of conflict. JV 2020 describes the operational concepts necessary to shape our joint forces to meet the Nation's strategic goals.

The overarching focus of JV 2020 is Full Spectrum Dominance achieved through the interdependent application of Dominant Maneuver, Precision Engagement, Focused Logistics, and Full Dimensional Protection. Attaining that goal requires the steady infusion of new technology and modernization and replacement of equipment. Materiel superiority alone, however, is not sufficient. Of greater importance is the development of doctrine, organizations, training and education, leaders, and

people that effectively take advantage of the technology.

The evolution of these elements over the next two decades will be strongly influenced by two factors. First, the continued development and proliferation of information technologies will substantially change the conduct of military operations. These changes in the information environment make information superiority a key enabler of the Transformation. Second, U.S. Armed Forces will continue to rely on a capacity for intellectual and technical innovation. The pace of technological change, especially as it fuels change in the strategic environment, will place a premium on our ability to foster innovation in our people and organizations across the entire range of joint operations.

JV 2020 lays out the concept for future joint warfare. It has five central functional imperatives that the joint force and its land power component must be able to do to execute the future fight. These imperatives, expressed as essential capabilities, are the following:

- **Dominant Maneuver**—the ability of joint forces to gain positional advantage with decisive speed and overwhelming operational tempo in the achievement of assigned military tasks.
- **Full Dimensional Protection**—the ability of the joint force to protect its personnel and other assets required to decisively execute assigned tasks.
- **Precision Engagement**—the ability of joint forces to locate,

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discern, and track objectives or targets; to select, organize and use the correct systems to engage or attack; and to generate desired effects, assess results, and reengage with decisive speed and overwhelming effect as required throughout the full range of military operations.

- **Focused Logistics**—provide the joint force the right personnel, equipment, and supplies in the right place, at the right time, and in the right quantity, across the full range of military operations.
- **Information Superiority**—the attainment of superior information flow that supports mission objectives.

We must continue to invest in and develop new military capabilities where needed to make our Army faster, more lethal, and more precise in 2020 than it is today. The following annexes to the *2001 Army Modernization Plan* outline our major efforts to equip the force to achieve the operational capabilities of **Dominant Maneuver, Precision Engagement, Focused Logistics, and Full Dimensional Protection**. Additionally, the essential enabler of **Information Superiority** is addressed in a separate annex, as is **Space**, another key full spectrum functional area. Finally, the annex on **Force Structure** covers the integral components of manning and organizing forces necessary to implement the capabilities defined in *JV 2020*.

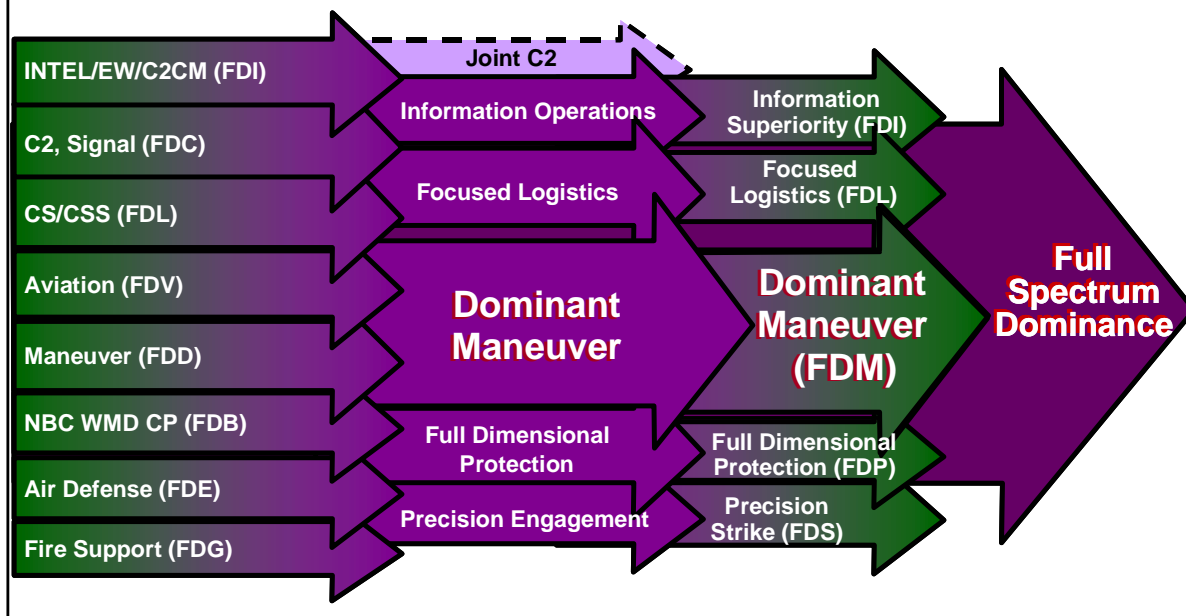
The operational concepts of *JV 2020* establish a framework for the Army to refine and focus its doctrinal, force,

and leader development efforts. While all these joint concepts are vitally important, for the Army, as a predominantly ground combat force, the concept of dominant maneuver is preeminent and is our focus. The remaining *JV 2020* operational concepts support the execution of dominant maneuver.

Although they will discuss some Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) organizations and equipment, the annexes will not focus specifically on digitization. Digitization has become a fact of the environment for the Army. The Legacy Force, along with the IBCTs, is already on the way to fielding digital systems and systems of systems. These will provide high-capacity, high-tempo C4ISR and logistics information flow to operations through computerization and digitization of key functions. They are central to increased effectiveness of the Counterattack Corps, and the Army will also put those same kinds of capabilities into the IBCTs and light organizations. Digitization will continue until the entire Army, both the Active Component (AC) and Reserve Component (RC), is digitized.

Modernizing or equipping the Army is supported by the program categories of **modernization, recapitalization (rebuild and selected upgrade), and maintenance**. All Army equipping programs fall within one of these categories, and the combination of efforts within these categories is carefully balanced to achieve revolutionary new capabilities for the

## Integrating JV 2020 into Army Modernization



future, while preserving a dominant capability for the Army of today.

The Army's Investment Strategy is its means of using the totality of the equipping programs in the best and most efficient manner to achieve the Army of the future that fulfills the new strategic and operational requirements. The categories for this Investment Strategy relate directly to the forces that will make up the Army throughout the Transformation process—Objective Force, Interim Force, and Legacy Force. The linkage of equipping programs by category to the respective force they will support contributes to identifying the appropriate levels and priorities of investments by the Army throughout the Transformation.

### Structure of Annexes

There are seven annexes included with this year's *Army Modernization Plan*. The first four discuss the respective

operational concepts of *JV 2020* and how they relate to Transformation as well as how the Army's functional areas provide the requisite capabilities to support the concepts. A fifth annex addresses the essential enabler of Information Superiority, its relationship to Transformation and how the Army achieves this capability. A sixth annex covers the full spectrum functional area of Space, and how this area supports other capabilities, relates to Transformation, and is achieved by various programs. Finally, a seventh annex addresses key force structure initiatives that are essential contributors to all other concepts and enablers. Following is a summary of these seven annexes:

### Annex A: Dominant Maneuver

This operational concept refers to the ability of forces to gain positional advantage with decisive speed and overwhelming operational tempo in the

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achievement of assigned tasks. For the Army, this concept is a paramount focus, given the Army's responsibility as the Nation's primary land force. Army Transformation has the objective of maintaining and furthering the Army's position as the preeminent ground combat force in the world in the strategic environment and technological conditions anticipated in the future. This annex describes how the respective functional areas of Ground Combat Maneuver and Mobility and of Aviation contribute to the achievement of Dominant Maneuver as well as support overall Army Transformation through a combination of materiel programs. Specific key systems are briefly described for each functional area, and an assessment of their current state is offered.

## **Annex B: Full Dimensional Protection**

This operational concept refers to the ability of forces to protect personnel and other assets required to successfully execute all assigned missions. For the Army, achievement of Full Dimensional Protection will preserve the combat capability of the force and thus directly support the success of Transformation and its associated goal of full spectrum dominance. This annex describes how the respective functional areas of Air and Missile Defense; Nuclear, Biological, and Chemical protection; Engineer survivability; and Military Police support the achievement of Full Dimensional Protection of Army forces and successful Transformation of the Army. Specific key systems in these functional areas are highlighted and

described, and assessments are provided on their present states.

## **Annex C: Precision Engagement**

This operational concept refers to the ability of forces to locate, appropriately select, and effectively attack targets throughout the full range of military operations. For the Army, achievement of Precision Engagement is primarily through the use of ground-delivered fire support capabilities, with important contributions of selected air-delivered capabilities from Army Aviation forces (covered separately in Annex A as part of their contribution to Dominant Maneuver). Precision Engagement directly relates to the success of Transformation, since full spectrum dominance depends heavily on the ability to neutralize hostile threats in all operational environments. This annex describes how this functional area supports Army Transformation and provides the capabilities and effects (lethal, nonlethal, and electronic) required for effective Precision Engagement in the future. Specific key systems are described, and an overall assessment of progress is provided.

## **Annex D: Focused Logistics**

This operational concept refers to the provision of the necessary personnel, equipment, and supplies at the right place and time for the full range of military operations. The Army Transformation process depends heavily on success in the vital area of Focused Logistics, since this overall capability is indispensable in fielding a more rapidly responsive and

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sustainable force for all future contingencies. This annex describes how the modernization efforts in the Combat Service Support functional area will support Transformation and provide the necessary components for highly effective Focused Logistics in the future. Specific key systems are identified and briefly discussed, including selected general engineering systems, and an assessment of current progress is provided.

## **Annex E: Information Superiority**

This is an essential enabler to the achievement of the four primary operational concepts discussed in Annexes A through D. It refers to the attainment of superior information flow that supports mission objectives across the full range of military operations. Army Transformation is largely dependent on exploiting and incorporating information age technology in future systems. This annex describes how the modernization efforts in Command, Control, and Signal and Intelligence and Electronic Warfare functional areas will further the achievement of Information Superiority and likewise support Transformation objectives. Specific key systems are discussed and overall assessments of progress are provided.

## **Annex F: Space**

Space is an overarching area that applies, in military terms, to all operational concepts in *JV 2020* as well as to the essential enabler of Information Superiority. Space capabilities are spread over many

functional areas and are also pervasive in their support role in the successful Transformation of the Army into a dominant, full spectrum force. This annex describes the various modernization efforts to provide effective space capabilities that will contribute to all elements of the Army during Transformation—present and future—and will support the success of land component forces. Specific key systems are highlighted and described, and an overall assessment of Army Space efforts is provided.

## **Annex G: Force Structure**

While not a concept or enabler of *JV 2020*, the area of Army force structure is an integral part of the Army's ability to man and organize forces to fulfill the capabilities identified in *JV 2020* and to achieve the responsive, full spectrum dominance envisioned in Army Transformation. People are the centerpiece of Army Transformation, and force structure is the means of translating individual soldiers and civilians into effective organizations capable of accomplishing missions in a wide range of contingencies. This annex discusses the current and planned force structure initiatives that are designed to support Army Transformation.

## **Summary**

The Army is not about equipment. More than any other Service, the Army's capability is embodied in organizations made up of soldiers and leaders who employ equipment to accomplish mission-essential tasks. That is why Transformation is about units, the tasks those units must

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perform, and, finally, about the tools that they need to perform them. The Army Transformation strategy provides for the essential capabilities needed to execute all aspects of the National Military Strategy in the form of organizations focused on major tasks: rapid contingency response, small-scale contingencies, forcible entry, containment in early phases of MTW, and operational counteroffensive. The Transformation strategy ensures that adequate organizational capabilities are aligned with these major tasks. Each force element is equipped with the items that, when combined with good training and leadership, will assure success in its assigned tasks while we go about building a truly full-spectrum Objective Force. That force will be built on a foundation of functional organizations, each with a common suite of capabilities enabled by a system of multi-functional, networked platforms and C4ISR.

Unlike its predecessors, this *Army Modernization Plan* is not about cataloging the replacements for today's warfighting machines. Its aim is to explain how the Army will sustain existing adequate capabilities and acquire those needed to meet specific organizations' future warfighting needs. With the exception of the sections on Force Structure (Annex G) and Space (Annex F), the annexes of this plan follow the basic outline of the Transformation strategy. In the context of the various force elements described earlier, the annexes discuss the capabilities required and how the Army is meeting those needs through a combination of maintenance, recapitalization, selective upgrade of capabilities, and modernization to replace obsolete or non-existent capabilities. Although they necessarily discuss systems, the intent of each annex is to show how those systems give specific organizations the capabilities needed for assured accomplishment of their missions.